



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx INE 12.0051X

Issue No: 1

Certificate history:

Issue No. 1 (2018-03-05)

Issue No. 0 (2012-10-26)

Status: **Current**

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Date of Issue: **2018-03-05**

Applicant: **FEAM**

Via Mario Pagano, 3  
I - 20090 Trezzano Sul Naviglio  
**Italy**

Equipment: **Three pieces unions type B... or B...C**

*Optional accessory:*

Type of Protection: **db and tb**

Marking:

Ex db IIC Gb or Ex db IIB Gb  
Ex tb IIIC Db IP66/67

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dominique Charpentier

*Position:*

Certification division manager

*Signature:  
(for printed version)*

*Date:*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

**INERIS**  
Institut National de l'Environnement Industriel  
et des Risques, BP n2  
Parc Technologique ALATA  
France



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Manufacturer: **FEAM**  
Via Mario Pagano, 3  
I - 20090 Trezzano Sul Naviglio  
**Italy**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31 : 2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[FR/INE/ExTR12.0052/01](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/08](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Metallic devices intended to be fitted on flameproof enclosures for group IIB and IIC and on enclosures for dust explosive atmospheres with tb protection.

This device gets the protection degrees IP66/67 according to the IEC 60 529 standard.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

These metallic devices are intended to be used in range of ambient temperature from -60°C to 130°C.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

**For the addition 1 of the certificate IECEx INE 12.0051X :**

- Extension of an ambient temperatures range from -50°C to -60°C

- Application of new standards versions:

- IEC 60079-1:2014
- IEC 60079-31:2013



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**Additional information:**

**Annex:**

[IECEX INE 12.0051X-01\\_Annex.pdf](#)



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Issue No.: 01

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Annex: IECEX INE 12.0051X-01\_Annex.pdf

## **PARAMETERS RELATING TO THE SAFETY**

Size of threaded joints:

- Conical thread : 1/2" NPT up to 4" NPT
- Cylindrical thread: ISO M16 x 1 mm up to ISO M40 x 1 mm  
ISO M16 x 1.5 mm up to ISO M115 x 1.5 mm  
ISO M20 x 2 mm up to ISO M115 x 2 mm

The equipment is intended to be used in an ambient temperatures range from -60°C to +130°C.

## **MARKING**

Marking has to be readable and indelible. It has to include the following indications:

- |  |                                      |
|--|--------------------------------------|
| • FEAM                                 | FEAM                                 |
| • I – 20090 Trezzano Sul Naviglio (MI) | I – 20090 Trezzano Sul Naviglio (MI) |
| • B... or B...C (*)                    | B... or B...C (*)                    |
| • IECEX INE 12.0051X                   | IECEX INE 12.0051X                   |
| • Serial number / Year of construction | Serial number / Year of construction |
| • Ex db IIC Gb                         | Ex db IIB Gb                         |
| • Ex tb IIIC Db IP66/67                | Ex tb IIIC Db IP66/67                |
| • -60°C ≤ Tamb ≤ +130°C                | -60°C ≤ Tamb ≤ +130°C                |

(\*) Type is completed by numbers and/or letters corresponding to manufacturing variations.

On the small operators, the marking can be reduced at:

- FEAM I-20090
- B... or B...C (\*)
- IECEX INE 12.0051X
- Ex db/tb

(\*) Type is completed by numbers and/or letters corresponding to manufacturing variations.

## **ROUTINE EXAMINATIONS AND TESTS**

None.